



'I'm looking for Romance' (capital R)

0446-79



Romance Carrier, no kin to Cupid.

Not everyone goes through life with a name like **Romance Carrier**. "The Carrier portion was assumed upon my marriage to Bill (a Biology Division employee), but the first name is all mine," said Romance, a member of the ORNL Information Division. "At one time I was one of five 'Romances' in Wheeling, W. Va.—all named after my grandmother."

In 1974, when Romance was new to the Nuclear Division, she attended a party with fellow Environmental Science Division member, Bobbie-Neal Collier (now also in Information). Upon taking her leave of the party, Bobbie-Neal saw she had become separated from her friend. So she walked up to one of the men at the party and said, in all innocence, "I'm looking for Romance."

The man was startled into replying, "What...right now?" The man in question was her division director at the time, Stan Auerbach.

Upon examining the Nuclear Division roster it was found that approximately 60 employees have "romantic" surnames—Love, Valentine, Hart, Lovelace, Loveless, etc. A random four-plant survey revealed that many employees have had name-related experiences, ranging from the embarrassing to the humorous. In honor of Valentine's Day, the following employees shared some of their stories:

"Every day is Valentine's Day for me," said **Daryl W. Valentine**, Instrumentation and Controls Division.

L. Richard Loveless said, "Loveless isn't true for us on Valentine's Day." He and his wife, May, have been married 25 happy years and live on Lovell Road.

The Paducah Plant has its share of romeos, too, such as **Clarence W. Loveland Jr.** and **Donald L. Valentine**, both in Engineering, and **Lewis C. Valentine**, Power Utilities and Chemicals.

William G. Love and his wife, **Willie D.**, both work at ORGDP. William, also known as Willie in some circles, is a maintenance mechanic and has been employed at ORGDP for seven years. His wife, Willie, joined the Nuclear Division at ORGDP three years ago as a clerk in Engineering.

There has been some confusion and mild surprise over the name "Willie." For example, Mrs. Love says people often call her thinking they are calling Mr. Love. She also reports some confusion in Medical, where her husband is known by some of the personnel as Willie. When she first started work and had to go to Medical, there were a few doubletakes and some questions asked about who is the real "Willie."

Naomi Hart, Y-12's Maintenance Division, relates she has had to put up with kidding names quite a bit...like "sweethart," etc. Naomi and her husband, **Len**, who took early retirement from Y-12 a couple of years ago, named their subdivision near Oak Ridge **Hartland Estates**. Their son, **London**, works at ORGDP. Both Naomi and Len are natives, growing up near the present ORGDP site.

Pat and Don Love, an ORNL couple living on Lovell Road in Knoxville, said that "Everyone asks us how to spell our name—some even think it's a joke!" Pat added that many of her

(Please see page 8)

NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation



Vol. 10/No. 3 February 8, 1979

Science and technology still enjoy support

Americans believe that science and technology make positive contributions to the American quality of life.

That generally is the consensus of a recent nationwide survey of 1500 people conducted by Cambridge Reports for Union Carbide. The Corporation sponsored the study to determine public attitudes on specific and general aspects of science and technology.

"There is a growing concern among scientists, business and the government that, as a nation, the United States might be losing its innovative leadership over other nations," said Sam Tinsley, director of corporate technology for the corporation.

He pointed out that in May of 1978 President Carter instituted a major domestic policy review of industrial innovation to develop and evaluate policy options related to the innovative process.

Tinsley noted that, "In the long run, the shape of a national technology policy will be influenced by public perceptions about the role of science and technology advancing national goals."

Tinsley delivered the results of the survey to Carter's scientific advisor, Frank Press, and to other key government leaders.

Among some of the results of the survey are:

- More Americans believe that private company research and development improves the quality of life more than government-funded R & D. However, nearly a third of those questioned said that both do so equally.
- Americans would like to see R & D concentrated on solving the

problems of cancer, energy and the rising costs of consumer products, in that order.

- Thirty-two percent of Americans believe that total spending of R & D in the United States is too small, 34 percent of those questioned thought it was about right, but only 16 percent thought it was too large.
- Most Americans favor increasing tax deductions for businesses when they spend money on R & D, but they also favor increasing government aid to universities and individuals engaged in scientific and technological research.
- Almost two-thirds of those polled felt that the United States should spend relatively as much, if not more, on R & D as other countries such as Germany and Japan. More than 40 percent also believed that the United States leads in research but that others are catching up.

Inside this issue. . .



Collecting images of George Washington, such as the one at left by Gilbert Stuart, 1795, is a hobby Bill Wilcox inherited from his father. See page 2 for his "different drummer."

In honor of Presidents' Day, Nuclear Division employees will get a holiday on February 19.

Also in this issue:

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- About peoplep. 8

A different drummer. . .

Will the real Washington please stand up?

As told by William J. Wilcox

Will the real George Washington please stand up? Collecting images of our first president, George Washington, has been the subject of an absorbing hobby for Bill Wilcox for many years. Wilcox, technical director for the Nuclear Division's production plants, caught the bug from his father who was an admirer and student of Washington.

The first president, one of the most famous people that ever lived, was painted by the best artists, several of whom made their livelihood from their "Washington" products. He "sat to" 22 painters and two sculptors, and they produced 48 original "life" portraits.

It is the chasing down of these portraits and their study which has proven so fascinating a study for Wilcox. To complicate the scene, there are hundreds of copies, replicas, versions and reproductions of the 48 originals. The Wilcox collection includes many dozens of books, slides, engravings, photographs, replicas and even one oil copy he did himself.

Mark Twain said that if Washington ever came back to life and didn't look like Stuart's portrait (on the one dollar bill), he'd be declared an impostor! Although this portrait has been printed more than any other (likely more than that of any other person), it certainly wasn't the one Washington's wife liked, nor many of his close friends.

To illustrate the nature of the puzzle of what Washington really

looked like, we are printing some of the Washington portraits made in those few years between 1789, when Washington became president at age 57, to the year before his death in 1799, when he was 67. Each of these portraits was done by artists with sufficient reputations to obtain sittings from a very busy man.

It is hard to believe that these representations are of the same person, but each finished product evoked testimonials (at the time) as to its "likeness." Wilcox says his favorite is none of these, but a marble bust done in 1785 by the great French sculptor Houdon, who based his work on a plaster cast of Washington's face. The bust carries not only the authenticity of that modeling, but Houdon's genius for interpreting and depicting character which made him the greatest sculptor of his day. Wilcox has developed a great regard for what he terms "his favorite revolutionary," along with this interest in Washington's portraits.

Edward Savage's portrait of the president was described by associates

(Editor's note: William J. Wilcox came to Y-12 early in 1943, transferring to ORGDP in 1949, where he has been involved in any aspects of the technology of the gaseous diffusion process. He did his undergraduate studies at Washington and Lee University (where else?), later earning an MS in industrial management from the University of Tennessee.

Highlighting his hobby comes at a particularly opportune time, as engineers all over the country mark next week as Engineers' Week in honor of the Father of Our Country!)

as the "best likeness in existence." It was painted when Washington was 57. John Trumbull fought the Revolution on Washington's staff and painted many of the founding fathers. His version of George was at the age of 61.

William Williams was an Episcopal clergyman and was commissioned by the Masons to do Washington, to "paint him just as he is." It took 11 sittings, 11 months, and the artist was paid \$300 for his efforts. Stuart's efforts were disdained by both the subject and his wife. The painter and the model didn't get along. It is probably the world's most often printed portrait, since it appears on our \$1 bills.

Happy Birthday, George!



Wilcox

Engineers Week. . .

It is no coincidence: Engineers Week and George Washington's birthday coincide. Washington was, among many other things, an engineer.

The theme of Engineers Week this year is "Engineers—People Bringing Purpose to Progress." Four Union Carbide authors will publish articles in the **Oak Ridger** during the week, highlighting progress and the human purpose it serves.

"The word progress has taken on a troubled connotation in today's society. With the rise of environmental concerns, coupled with a marked depletion in many of our natural resources, a number of people have begun to question the very need for progress. The litany is by now almost too familiar. Yet, ironically, it is our very level of progress and achievement which has made this protest possible."



Edward Savage, 1789



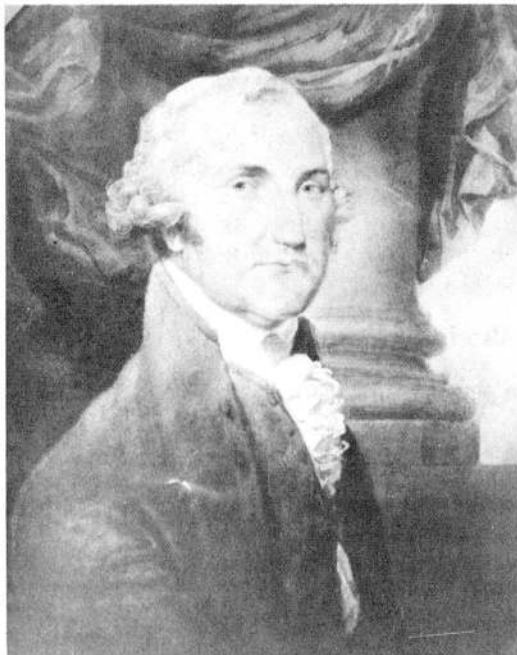
William Williams, 1793



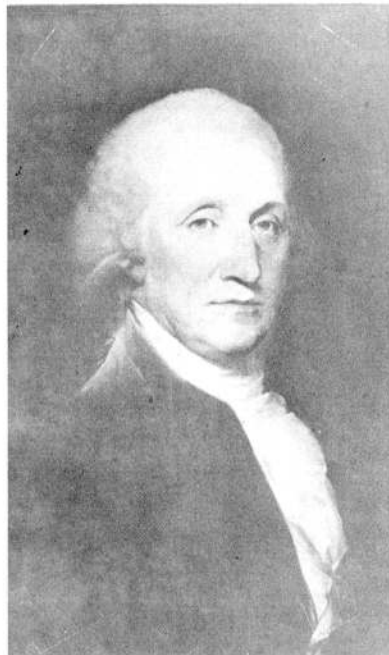
Adolph Wertmuller, 1794



Charles St. Memin, 1789



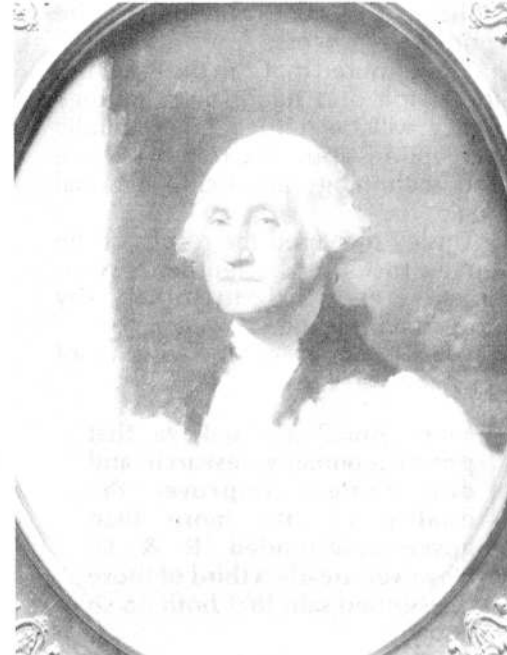
Archibald Robertson, 1791



John Trumbull, 1793



Jean Houdon, 1786



Gilbert Stuart, 1795

question box. . .

If you have questions on company policy, write the editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Paducah calendar photos

QUESTION: I would like to know why there were not any blacks pictured in the 1979 Carbide calendar at Paducah. I realize that the pictures used were several years old, but there have been blacks at the Paducah Plant since May, 1951. Also, the cover represented generations of families at the plant. There are several black families of generations (father-son, mother-son) at the plant. So why weren't blacks represented on something which is as plant-wide as the calendar?

ANSWER: The Paducah Plant manager recently issued the following statement concerning this matter:

"Our 1979 Safety Calendar which was recently distributed had a pictorial theme 'A Generation of Safety.' Unfortunately, the calendar did not include pictures of all groups within our organization that have contributed significantly to our excellent safety record. In particular, the omission of pictures of our black employees who have done so much to enhance our safety record is most regrettable. This is simply an instance where we made a mistake.

"We have established a Publications Review Committee to examine future publications that are in process so we do not inadvertently miss those that should be properly recognized.

"Let me supplement our calendar by saying that we appreciate the efforts of everyone working to make our safety record an outstanding one."

ORGDP safety sign

QUESTION: "Off the Job Safety Starts Here," reads a sign at the entrance of ORGDP. Last year an employee fell in the parking lot outside K-1007, breaking an ankle. Should these signs also not be placed at the exits of our building?

ANSWER: Many favorable comments have been received concerning the signs to which you

refer. It is hoped that such reminders will assist in reducing off-the-job disabling accidents that currently outnumber work related accidents thirty to one. Your question will be called to the attention of ORGDP management as a suggestion for their consideration.

Improper telephone use

QUESTION: There is a person in our department who calls her parents in the west on the FTS system when the boss is out. Is this not illegal use of the telephone and against Company regulations?

ANSWER: It is. Installation telephones should normally be used only for official calls. Personal calls that are not of an emergency nature should be made from home, if practical, not from the work place. If it is necessary to make personal calls from work the time involved should be held to a minimum and any costs involved should be charged to an employee's residence telephone or to a personal credit card.

In connection with the recent changeover to the new telephone system in Oak Ridge, every effort is being made to advise employees that telephones at work are to be used only for official calls. The new Oak Ridge system provides traceability of all calls. Abuses in use of the telephone system throughout the Nuclear Division will be investigated and corrective action taken in each case.

Jogging at ORNL

QUESTION: There was a recent announcement at the ORNL indicating that "running" would not be permitted. Does this mean that there will no longer be any jogging at that location?

ANSWER: Yes. The directive issued by the executive director for support and services clearly prohibits jogging or any other form of running within the fenced-in areas or buildings of the Laboratory.

Nuclear Division appointments



Modzik



Jordan



Hicks



Greene



Nolan



Whittaker



Nolan

Six appointments have been announced within the Nuclear Division. The Employee Relations Department at Y-12 has made two appointments: John S. Greene has been named a safety specialist in the Safety Department, and Billy T. Hicks replaced Robert T. Cantrell, retirement counselor, who is retiring at the end of this month. In Y-12's Maintenance Division, four new supervisors have been named: John R. Jordan, George Modzik, Buford N. Nolan and Robert L. Whittaker.

Greene joined Union Carbide in 1965 at the Carbon Products Division in Lawrenceburg, Tenn. He transferred to the Nuclear Division in 1967, as an instructor in the Training and Technology project. Most recently he was in the Product Certification Division.

A native of West Palm Beach, Fla., he is a graduate of Cumberland College and has done studies at the University of Tennessee. He and his wife, the former Iris White, live at Route 3, Tacora Hills, Clinton.

Hicks, a native of Clinton, has a BS degree from Tennessee Wesleyan College and an MS from the University of Tennessee. He taught school and coached in the Oak Ridge school system before joining Union Carbide in 1967.

Married to the former Sandra Copeland, Hicks lives at 7437 Glastonbury Road, Knoxville. They have two children, Lee Ann and Bill Jr. "Chip".

Jordan, a native of Greenville, Ala., attended Tennessee State University and the University of Tennessee before joining Union Carbide in 1969. He served in the U. S. Army and also worked as an electronic coordinator with SONY in Okinawa and Japan.

Married to the former Emma Miller, Jordan lives at 216 Alhambra

Road, Oak Ridge. The couple has two children, Johnetta and John R. II.

Modzik, a native of Jere, W. Va., joined Union Carbide in 1974, after retiring from the U. S. Air Force. He is attending the University of Tennessee.

He and his wife, the former Eva Guthrie, live at 401 New York Avenue. They have two daughters, Beth and Deborah Ashmore.

Nolan was born in Sevier County and grew up in Clinton. He attended the Fulton Vocational School studying welding, air-conditioning and refrigeration.

Mrs. Nolan is the former Linda Smith. They live at Route 4, Ivanhoe Road, Clinton, with their two children, Eric and Suzette.

Whittaker, a native of Knox County, attended Carson Newman and Knox Business College before joining Union Carbide in 1970. He also worked for the Sentell Brothers Paint Company.

Whittaker lives at Route 18, Andes Road, Knoxville.

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
October 78	15.2498	38.7613	8.1097
November 78	15.3597	35.5826	8.2480
December 78	15.4728	34.6959*	8.4098

*\$33.7013 in Dividend Reinvestment
& Stock Purchase Plan

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.85% for 1978. Union Carbide stock values are the average cost of stock purchased during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

next issue. . .

The next issue will be dated
February 22. The deadline is
February 13.

'House that Jack built' started with basic Union Carbide logo

Designing a home? Well, first you need some configuration as a basis. What about the Union Carbide logo...the familiar hexagon? That's exactly what John W. Landry, Y-12's Planning and Systems Support, did. He began with the basic hex...added a couple of wings...and **voila!** a dream retirement home.

Landry, who had to forego college graduation exercises at the University of Wisconsin (BS in chemical engineering '44), came to the Manhattan Project almost at its inception.

The retirement home is designed with the kitchen as its center. Its walls extend only to the height of the cabinets. There is no conventional ceiling; rather, a three-foot gap to the home's beamed cathedral ceiling.

The "Carbide logo" is embellished with two wings...for a garage and for bedrooms.

The home was featured recently in the **Window on Real Estate**, a Madison newspaper, because of its unique architectural configuration. The house plan centers on the hexagon, with a high cathedral ceiling. The "Carbide logo" is embellished with two wings...for a garage and for bedrooms. It might very well be called the "Flying Carbide Logo."

The unique fireplace, which Landry designed, is an accordion-shaped copper hood facilitating heat retention, with strong fans and vents to carry heat through the entire house (it gets cold in Wisconsin!).

Landry will share the spacious home with his sister, Eleanor, who is a textile and clothing specialist at the University of Wisconsin Extension. She will also carry her profession into retirement as a hobby, designing her own clothes.

House planned around hobbies, vocations of both brother and sister.

His photography hobby will occupy most of the basement, with a complete darkroom and workshop.

The lot on which the house is built featured some unique problems also. Train tracks slice through the wooded thicket behind the lot. Heavy steel cars still shuttle through the area, bringing back memories for the two

patents granted...

To Sidney Katz and Billy R. Rodgers, both of ORNL, for "Method for Improving the Sedimentation and Filterability of Coal-Derived Liquids."

To John F. Clarke, former director of ORNL's Fusion Energy Division, for "High Beta Plasma Operation in a Toroidal Plasma Producing Device."

To Laszlo Adler, K. Von Cook, D. Kent Lewis and William A. Simpson Jr., all of ORNL, for "Anisotropic Determination and Correction for Ultrasonic Flaw Detection by Spectral Analysis."

who grew up near railroad tracks in Neilsville, Wisc. "We still wave to the engineers," brother and sister stated.

Since both John and Eleanor have lived in apartments and small homes during their careers, they will take little furniture into their new home. No problem. The house was designed with many built-in features such as the entire wall of Eleanor's sewing room with built-in drawers and counter tops for thread, scissors, pressing equipment, scraps of cloth and other materials essential to a dressmaker.

Landry, who plans to end his career soon, has another unique Union Carbide moment to follow him into retirement. "I have bought a share of Union Carbide stock every month since I came here...not so much for stock speculation (even though I consider it an excellent buy on the market), but purely from a selfish angle. When you own a part of the company that employs you, I believe you do a better job. It's a lot like working for yourself...only on a bigger scale."

So if you're ever flying over Madison (actually a suburb of Chicago) you might watch for the familiar Union Carbide hex. There's one of our retirees living down there for sure.



BASIC DESIGN—Landry started the idea for his home with the Union Carbide logo as its base from which to work with.



PICTURESQUE VIEW—The John Landry home features a walk-around deck in the front which overlooks a wooded area which covers a railroad track. "It doesn't bother us, however," they say, "we still wave at the engineers."



CHRISTMAS AT HOME—Eleanor and John Landry spent the past Christmas in the new home they will occupy when they retire. The unique house was designed around the Union Carbide hexagon, and the Landrys are in the huge family room which is in the center of the hex. The brother and sister team worked together in designing the home to suite their tastes and activities.

Support for retirees' club shown in initial responses

Officials of the Union Carbide Retirees Association have reported an overwhelming response to their summons to organize a club for retired Nuclear Division employees.

The first mail brought 92 responses, the majority of whom sent the necessary \$1 application fee. It should be pointed out that employees who have not retired (yet married to a retiree) are also eligible to join. That is, if either spouse is retired, both are eligible to join, regardless of whether the other is still working or not.

(The application is printed again below.)

Interests ran the gamut on the initial applications, with travel leading the list. (Most applicants showed a preference for travel "within the USA" when possible.) Picnics came in as a close second, which give the retirees a first shot at their second choice with a gala picnic-reunion set for June 8 at the Clark Center Recreation Park.

Most of the early applicants also favored belonging first to their own plant retirement sub-group, to be under the organizational governing body for the entire club.

All applicants showed enthusiasm with several notes of "It's about time!" in evidence.

The UCRA officials also plan to offer regular contributions to the **Nuclear Division News** relative to retirees and their activities, as well as upcoming plans of the association.

New interests, not included in the application below, were "Sailing...Sewing...Handicrafts...and Adult Education."

Questions on the retirees' association should be addressed to Virginia Donahoe, P.O. Box 3501, Oak Ridge telephone, 482-1968.

DIVIDEND DECLARED

The Board of Directors of Union Carbide has declared the corporation's 247th consecutive dividend. The amount is 70¢ a share on outstanding capital stock, payable March 1, to stockholders of record on February 2. This is the same dividend paid last December 1.

UNION CARBIDE RETIREES ASSOCIATION

Membership Application

Name _____
Spouse _____
Address _____
City _____ State _____ Zip _____
Telephone—Area Code _____/Number _____

(Please note if applicant is widow or widower. Fill in "Spouse" line with deceased employee's name, year of retirement and plant from which retired.)

Check preference for membership in one of the following:
ORGDP _____ ORNL _____ Y-12 _____
Combined Oak Ridge Plants _____ Paducah _____

Indicate participation preference:

Golf _____ Bowling _____ Swimming _____
Tennis _____ Fishing _____ Dancing _____
Camping _____ Hiking _____ Picnics _____
Travel _____ Painting _____ Bridge _____

Place of travel _____
Others _____

Fee \$1 per person (Make check payable to:
Union Carbide Retirees Association)

Mail to:
P.O. Box 3501
Oak Ridge, Tennessee 37830
or
P.O. Box 238
Paducah, Kentucky 42001



Enjoying the leisure life. . .



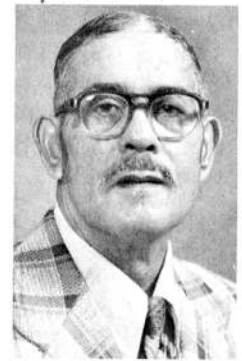
Carroll H. Noe
Y-12 Maintenance
33 years service



Dennis E. Garrison
Separations Systems,
ORGDP
33 years service



Elizabeth C. Johnson
Statistical Services,
Y-12
33 years service



Jess Johnson
Process Maintenance,
Y-12
32 years service



Rayman V. Rinehart
Computer Sciences,
ORGDP
34 years service



John O. Norman
General Accounting,
ORGDP
31 years service



Reece Robbins
Beta-2 Assembly,
Y-12
25 years service



Paschal S. Greene
Tool Grinding,
Y-12
27 years service



Grady G. Norton
Y-12, General Shops
25 years service



Ray L. Coffey
Dimensional Inspection,
Y-12
24 years service



Walter L. Howard Jr.
Y-12 Engineering
30 years service



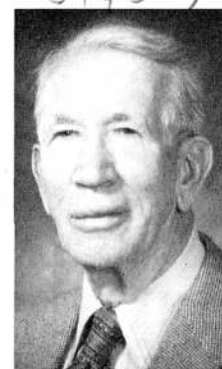
Richard W. Hayes
Y-12 Engineering
27 years service



Charles H. Slaton
Y-12,
Guard Department
25 years service



Charles R. McKelvy
ORGDP
Operations
34 years service



John G. Byrd
Chemical Technology
ORNL
34 years service



John N. Davis, Jr.
ORGDP Maintenance
14 years service

safety scoreboard

Time worked without a lost-time accident through February 1:

Paducah	174 Days	2,133,000 Employee-Hours
ORGDP	51 Days	1,485,600 Employee-Hours
Y-12 Plant	295 Days	9,243,000 Employee-Hours
ORNL	115 Days	1,601,138 Employee-Hours

wanted...

ORNL

CAR POOL MEMBER from Westhaven Subdivision, Knoxville, to East or West Portal, 8-4:30. Boyd Lynch, plant phone 4-5986, home phone 524-5729.

RIDE from vicinity of West Vanderbilt Drive and Oak Ridge Turnpike (across from Jefferson Tennis Courts) to East Portal, straight days. C. A. Clark, plant phone 4-4854.

TWO VAN POOL RIDERS from West Knoxville to any portal, 8-4:30. Mike Caldwell, plant phone 4-4885, home phone 691-1615.

RIDERS FOR NEW VAN POOL from West Knoxville area to any portal, 8-4:30. D. A. Treadway, plant phone 4-6580, home phone 584-4879.

RIDER from West Knoxville to any portal, 8-4:30 shift. Mike Caldwell, plant phone 4-4885, home phone Knoxville 691-1615.

TWO RIDERS from Chapman Highway area, Knoxville, to East, West or North Portal, 8-4:30. A. B. Thornton, plant phone 4-7231, home phone 577-0731.

PADUCAH

TWO or THREE CAR POOL members from the Emma Morgan school district, Paducah, straight days, C. R. Adams, PAX 627, home phone Paducah 442-0501.

ORGDP

CAR POOL MEMBER(S) from Cedar Bluff Road area in West Knoxville, to Portal 4, 8 to 4:30. Henry Webber, plant phone 6-0329, home phone Knoxville 690-7205.

Y-12 PLANT

RIDE or will JOIN CAR POOL from Woodlawn Drive, Clinton, to Pine Ridge Portal, 7:30 a.m. to 4 p.m. Margaret Less, plant extension 4-3061, home phone 457-2819.

safe thinking...

ON THE ROAD—The driving technique of the person behind the wheel is the most important single element in determining fuel economy in any car. Drive at a steady pace. Avoid stop and go traffic. Adjust your driving to avoid unnecessary, wasteful accelerations and decelerations.

ORGDP folks dancin'



BETTER LATE THAN NEVER—Photographs of the ORGDP holiday dance, which took place early in December, got mixed up in the Christmas mail. The festival spouses and guests enjoyed the music of Bob Stewart and his band "Southern Storm."

recreationotes...

Carbide roadrunner competition

The Recreation Department is sponsoring a Road Race March 31 at the Clark Center Recreation Park for Union Carbide employees. THIS ROAD RUNNER TRIAL IS FOR EXPERIENCED RACERS! You may wish to start training and warming-up for the event now. It will be four miles in length. Details and entry forms will follow in a later edition.

Paducah bowling...

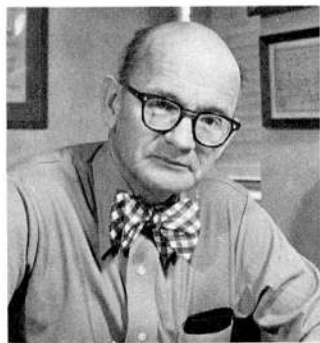
The Paducah Plant bowling league held its First Half Tournament recently. Kave Kaler and Kurt Hardman split the high game at 250. Andy Mason tagged the number three spot with 232. Jim Brown rolled the high series, 692, while Doug Foley totaled a 671 composite and Larry Johnson bowled a 656.

Paducah deer hunt...

Deer hunters in the Paducah area have laid down their weapons for the season and the plant's prize winning kills have been announced. Dennis Warford took first place honors with an accumulation of 66½ points. Earl Roof bagged the second place slot with a 58½ point buck. Al Pendergrass laid claim to a 51 point deer for third place.



CHRISTMAS CHEER—"Hot Dancin'" provided the music for Paducah employees at the Civic Center there. Another plant dance is set for this month and the dance committee is looking for suggestions from co-workers on music, etc., that they prefer.



Teen-age alcoholism

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

High school teachers are no longer surprised when one of their students is obviously under the influence of alcohol in the classroom. Drinking beer is now almost as common at teen-age parties as soft drinks were 30 years ago.

A number of surveys of teen-age alcohol consumption have been conducted since World War II. The proportion who drank rose rapidly until approximately 1965, when it leveled off at about 70 percent. A more recent survey indicates that about 80 percent of teen-age males and 74 percent of females are drinkers. This survey found that 23 percent of the boys and 15 percent of the girls were problem drinkers. They had been drunk six or more times during the previous year or had gotten into trouble with teachers, parents or police because of their drinking.

The proportion who drank rose rapidly, then leveled at about 70 percent.

The early age at which drinking begins may surprise parents who think their children are still "too young" to be concerned about. Teen-agers typically have had their first drink away from their parents by age 13 or earlier, and about five percent of seventh grade boys are problem drinkers.

Why do teen-agers drink so much? Many reasons are cited by expert observers. Probably the most important overall reason is because adults drink so much. They are following the adult example now but are starting at a much earlier age.

Pressure from their peers is also a major factor. To be "one of the gang," drinking is expected. Getting drunk at least once has become almost a puberty rite. Commercials on TV make beer drinking seem a symbol of manhood.

Dr. Ralph Ryback, a psychiatrist and a nationally recognized expert on alcoholism, believes alcohol is especially attractive to teen-agers because it is a time when self control has to be developed. The desire to have the independence of adulthood is strong, but the discipline to control impulsivity comes hard. Adults, teachers, police (and sometimes almost everybody) are looked upon as authority figures who are demanding and expecting them to "grow up." Getting drunk temporarily releases them from this responsibility. It is an exciting flight

from the "problems" of becoming adults. Besides, their parents seem to need a drink to tolerate the stresses of adulthood, so why shouldn't they get some relief in their struggle to get there!

Their parents seem to need a drink to tolerate adult stresses. . . so why not them?

The consequences of teen-age alcohol consumption are usually relatively benign. A few become chronic alcoholics and die or become disabled at an early age. An alarming number are killed in automobile or other accidents. In Massachusetts, there was a 167 percent rise in fatal accidents in teen-agers and a 166 percent increase in arrests for drunken driving when the age required to purchase alcoholic beverages was lowered from 21 to 18.

In the past two years, five states which had lowered the age from 21 to 18 have now raised it again. Minnesota, Iowa and Montana have raised the limit to 19, while Maine has gone to 20. Only Michigan has returned to 21. Although 26 states followed New York's lead in reducing the purchase age from 21 to 18 which began in 1934. The trend to raise it again is strong.

It appears that 18-year-olds provide beer and alcoholic beverages to their friends who often tend to be as young as 14. After getting out of high school, the peer group of young males seems to change away from the young school friends to adults closer to their age. By raising the purchase age at least to 19 or 20, the easy availability to high school kids may decline.

By raising the purchase age, the easy availability to high school kids may decline.

No one has any easy solutions to this problem. It appears to be a hazard in growing up. Some will get killed. A good many innocent young people and adults will also be killed.

Several have suggested that an education program for young people on how to drink might be useful. The only legislative innovation that seems to have much impact is raising the purchase age to 21 and enforcing it. Only a few states vigorously enforce their driving while under the influence statutes. Immediate loss of license with severe penalties if caught driving seem to help. Probation with

Corporate world of Union Carbide...

OVER 50 YEARS AGO, Union Carbide introduced Prestone Anti-Freeze to the auto owners in America. It has proved to be one of the Corporation's most successful ventures.

This winter...Union Carbide announced a new anti-freeze formula. . .this time for use on coal. Last year, severe weather with sub-freezing temperatures froze coal piles and coal cars almost solid. Thousands of hours were spent by coal producers and users trying to break the frozen hunks of coal into a usable product.

To solve this problem, Winter Flo Coal Aid, a water-soluble conditioning fluid, was introduced. It was developed in Union Carbide's Tarrytown Labs to prevent coal freeze-up problems and will be produced in the Kanawha Valley.

Winter-Flo was designed so that small concentrations of the fluid could be sprayed onto coal as it is loaded in hopper cars. The fluid spreads on coal surfaces and dissolves in the moisture which is already there. When the mixture freezes, it conditionally modifies the ice crystals. The result is an exceptionally weak ice which readily crumbles.

anniversaries ...

ORNL

35 YEARS

Frederick A. Kappelman Jr., Chemical Technology; Theodore Shapiro, Engineering; Arthur L. Allen, Plant and Equipment; Ralph G. Nicol, Chemical Technology; and Reynold G. Berggren, Metals and Ceramics.

30 YEARS

Calvin C. Cherry, Irving Spiwak, Earl D. Bridges, Ruby E. Sharp, Frances L. Ball, Elliott D. Carroll and Paul L. Jude.

25 YEARS

William H. Fleischman, Gordon G. Warner, Alfred M. Smith, Harold W. Jernigan, William B. Anthony and Boss Davidson.

20 YEARS

Alice K. Cobb, Buford Graham, Rudie L. Patterson, Travis M. Sims, Clifton W. Hall and Richard E. Pawel.

Y-12 PLANT

35 YEARS

N. Kenneth Bernander, Product Certification Administration; Arthur H. Snyder, Product Information Center; Richard E. Dew, General Shops; Birdie F. Childs, Timekeeping; and Woodrow C. Munsey, Process Maintenance.

25 YEARS

Clifton J. O'Neal, Mary P. Ross, Hobert N. Millican, Wilburn D. Cunningham, John B. Cory, Jack L. Williams, Claude W. Davidson, Roy E. Worley, Earlie G. Lassater, Melvin J. Tharp, J. C. Graves and Carl F. McLarrin.

20 YEARS

John D. Osborne, Ralph D. Vaughan, George E. Hundley, Clarence R. Abercrombie Jr., John D. Allen, Jack W. Henderson, Billy G. Layman, James L. Braden, James C. Chamberlain, Jackie D. Crye, William L. Mincey, Edmond D. Nicley, George W. Bailey, Ralph E. Reed and Larry A. Underdown.

ORGDP

25 YEARS

Ulys Houston, Bobbye Curtis and William A. Gardner.



Mr. Baird

Garrett Baird Jr., Y-12 Dimensional Inspection, died January 21 in Knoxville. A native of Campbell County, he joined Union Carbide in 1961, after serving in the U. S. Navy and working with General Electric and Aero-Jet.

He is survived by his wife, Pauline Baird; son, Daniel; daughter, Pamela Davis; brothers, Emmit, John and Harold; sisters, Cynthia Powers and Maggie Smidey.

Funeral services were held in the Weatherford Chapel with burial in the Tennessee Valley Memory Gardens. The family has requested that memorials be made to the Solway United Methodist Church.

report of activities and evidence of continued responsible behavior before the return of driving privileges should be useful. Few legislators wish to tackle the latter because the age for voting still is 18, and lobbying by beverage interests is intense.

Even though there is no easy solution available, it is a problem we cannot afford to ignore.

NUCLEAR DIVISION NEWS

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about people...



Heckman



Leibo

Carol A. Heckman, a researcher in the respiratory carcinogenesis program in ORNL's Biology Division, has been appointed to a second term on the National Science Foundation's Advisory Committee on Cell Biology. She is the committee's youngest member, having been originally appointed at the age of 32.

Heckman came to Union Carbide in 1975 from Yale University, where she was a faculty member in the Department of Molecular Biophysics and Biochemistry. She is a member of the American Society for Cell Biology, the Tissue Culture Association, the Electron Microscopy Society of America and Sigma Xi.

Stanley P. Leibo, a researcher in the Molecular and Cellular Sciences Section of ORNL's Biology Division, has been elected vice president of the international Society for Cryobiology, effective January 1. A member of the Society since 1964, he has in the past served a term on its board of governors, and is currently serving for the third year on the editorial board of *Cryobiology*, the Society's official journal.

Leibo joined the Biology Division in 1953 as a postdoctoral fellow, and became a permanent Union Carbide employee in 1965.

Since 1974, he has held an appointment as a visiting scientist in the Harvard-MIT Program in Health Sciences and Technology. In 1976 and 1977, he was one of four members of a UNESCO-sponsored faculty that presented cryobiology seminars in six European countries.

Leibo has recently returned from a year's research at the Institute for Immunology in Basel, Switzerland.



BADGING MOVES ALONG—More than 2,500 employees have had new badge pictures made at ORGDP since the first picture was made on January 25 of Charles E. Amos, Maintenance Division. The pictures are part of the new color badging system that will become operational in 1980. In the above photograph, Jim Patterson, Photography, is busy calibrating equipment as co-worker Bobbie Duncan looks on.

I'm looking for Romance!

(Continued from page 1)

coworkers in the Central Management Offices call any memo from her a "Love note."

Another ORNL couple, **Harry and Jan Lovelace**, told of how fellow Oak Ridge Boat Club members christened their craft the "Love Boat"—a name which stuck. "When we married, we took the boat on a cruise down to Chattanooga with other Club members, who all seemed to enjoy the Love Boat Honeymoon," said Jan.

C. Ken Valentine, Y-12's Metal Preparation Division, says he hasn't had any kidding about his name "since grammar school." Ken shares more than just a name with the patron saint of lovers—he and Diane Davis were married on Valentine's Day! "It's been a while, though," he added, "but don't tell her I said that." The Valentine's live in the Eaton subdivision near Lenoir City.

Dream boat.



Take stock in America.
Buy U.S. Savings Bonds.

Animals on the reservation...



SHADOW SEEKER—The groundhog, or woodchuck, abounds in the Oak Ridge area, feeding on the lush kudzu and other grasses. Legend has it that if he comes out of hibernation and sees his shadow, he'll return to his den for six more weeks of winter. Despite the fact that the myth originates in a small town in Pennsylvania, it has been adapted by East Tennesseans and Kentuckians alike. Legend or not, we hope he enjoyed his brief awakening and stays out for an early spring!



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